

ABSTRACT OF THE DISCLOSURE

In double-layer capacitor and rechargeable battery  
5 electrochemical cell systems comprising opposed electrode  
members of polymeric matrix composition having an interposed  
electrically insulative, ion-conductive separator member  
incorporating electrolyte solution, thermal lamination of the  
electrode members to an interposed paper separator member to  
10 form a unitary cell structure is enabled by initially providing  
in the region of the separator/electrode interface, either  
incorporated into the electrode composition or situated in the  
separator member, a sufficient amount of a supplemental  
plasticizer compatible with the electrode matrix polymer to  
15 render at least the surface portion of the electrode composition  
capable of adhesive flow under the selected conditions of  
laminating heat and pressure. After lamination, a sufficient  
amount of the supplemental plasticizer is removed, by  
evaporation or selective extraction, to ensure against  
20 delamination of the cell structure in the event of exposure to  
vagrant heating.